LISTING OF THE CLAIMS

1. (Currently amended) A method for servicing email at a client of a

sender of an email comprising:

receiving a request at the client of the sender to send the email to a

recipient, the email containing a main body and one or more attachments and

the recipient having an incoming email server for receiving at least a portion of

the email:

determining at the client of the sender whether the email to be sent

includes one or more attachments;

determining whether a the recipient of the email has a corresponding

distributed storage separate from an-the incoming email server-of the recipient

for storing email attachments, if the email to be sent includes one or more

attachments:

determining a network address of the recipient's distributed storage for

storing email attachments, if the recipient has such distributed storage;

determining at the client of the sender an availability of whether the

recipient's distributed storage based on determining the recipient has a

corresponding distributed storageis available to receive the one or more

attachments upon determining the network address;

if the recipient has the available corresponding distributed storage for

storing email attachments and the distributed storage is available to accept said

one or more attachments:

sending a the main body of the email from the client of the sender

to the incoming email server of the recipient; and

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

sending an instruction to the recipient's distributed storage to

submit a request for the one or more attachments of the email; and

upon receipt of such a request, sending the one or more

attachments of the email from the client of the sender to the recipient's

corresponding distributed storage for email;

otherwise, sending the main body of the email and the one or more

attachments from the client of the sender to the incoming email server.

2. (Currently amended) The method of claim 1, wherein said determining

of whether the recipient of the email-has a corresponding distributed storage separate

from an the incoming email server of the recipient for storing email attachments

comprises querying a recipient email distributed storage location server.

3. (Currently amended) The method of claim 1, further comprising wherein

said determining of the a network address of the recipient's distributed storage for

storing email attachments and-comprises querying a recipient email distributed storage

location server.

4. (Currently amended) The method of claim 1, wherein said determining

of whether the recipient's distributed storage is available to receive the one or more

attachmentsthe availability comprises pinging the recipient's email distributed storage

using said determined network address.

5. – 8. (Canceled)

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

9. (Currently amended) The method of claim 1, further comprising

sending the main body of the email and the one or more attachments of the email to the

incoming email server of the recipient if the recipient has distributed storage but the

distributed storage is not available to accept said one or more attachments.

10. (Currently amended) The method of claim 1, further comprising

sending the main body of the email and the one or more attachments of the email to the

incoming email server of the recipient if the recipient does not have the distributed

storage for email attachments.

11. – 12. (Canceled)

13. (Currently amended) A method for servicing email at a server

comprising:

receiving at the server an email on behalf of a recipient, the email

including a main body and one or more attachments;

transmitting a query to a storage location server;

responsive to the transmitting, if the recipient has a distributed storage

for storing email attachments, receiving from the storage location server a

network address of the determining whether the recipient of the email has

distributed storage for storing email attachments corresponding to the recipient,

otherwise receiving a first indication that the recipient does not have a

distributed storageby querying a recipient email distributed storage location

server;

determining a network address of the recipient's distributed storage for

storing email attachments, if the recipient has such distributed storage;

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

receiving determining periodically a second indication for indicating

availability of whether the recipient's distributed storage is available to receive

the one or more attachments upon determining the network address;

sending an instruction to the recipient's distributed storage to submit a

request for the one or more attachments of the email; and

upon such a request, sending the one or more attachments of the email

to the recipient's distributed storage for email attachments based on receiving

the network address and the second indication.

14. (Canceled)

15. (Currently amended) The method of claim 13, wherein said determining

of the network address of the recipient's distributed storage for storing email

attachments comprises querying a recipient email distributed storage location serverthe

recipient includes an incoming email server separate from the distributed storage and

wherein responsive to receiving the first indication, sending the main body and the one

or more attachments of the email to the incoming email server.

16. (Currently amended) The method of claim 13, wherein the network

address is received from the storage location server and wherein the second indication

is received responsive to wherein said determining of whether the recipient's distributed

storage is available to receive the one or more attachments comprises pinging the

recipient's email distributed storage using said determined the network address.

17. – 18. (Canceled)

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

Filing Date: 07/25/2001

5/25

19. (Currently amended) A method for an email distributed storage

<u>location server</u>, comprising:

receiving a registration-first request at a distributed storage location server;

registeringto register a an email user's distributed storage of an email user

responsive to the first request, the distributed storage for storing email attachments of

the email user, said user being a part of a peer to peer communication system, the

registering including; storing an identifier of the email user and a corresponding

network address of the email user's distributed storage for email attachments of the

email user:

receiving a second request from a requestor for the network address of the email

user's distributed storage of the for email attachmentsuser; and

providing the requestor with the network address of the email user's distributed

storage for email attachments.

20. (Previously Presented) The method of claim 19, wherein the

requestor is a sender of an email.

21. The method of claim 19, wherein the (Previously Presented)

requestor is an email server associated with an email recipient.

22. (Canceled)

23. (Currently amended) A method for servicing email at a client of a

recipient of an email comprising:

receiving at the client of the recipient of the email a request from a user in a

peer-to-peer communication system to access an attachment of an email;

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

determining accessibility of whether a distributed storage for storing email

attachments for the user;

determining if is accessible and, if so, whether the attachment is stored in said

distributed storage; and

if the distributed storage is accessible and contains the attachment, retrieving

the attachment from the distributed storage, otherwise if the attachment is stored by

the distributed storage and retrieving the attachment from an incoming email server,

the incoming email server being separate from if the attachment is not stored by the

distributed storage.

24. (Currently amended) The method of claim 23, wherein said determining

accessibility of whether the user's the distributed storage for email attachments is

accessible comprises pinging the user's distributed storage for email attachments.

25. (Currently amended) The method of claim 23, wherein said

retrieving the attachment further comprises retrieving the attachment from the user's

distributed storage for storing email attachments if the user's-distributed storage for

storing email attachments is accessible, and the attachment is stored in the user's

distributed storage for storing email attachments.

26. (Currently amended) The method of claim 23, wherein retrieving

the attachment further comprises retrieving the attachment from an incoming email

server of the user if the user's distributed storage for storing email attachments is

accessible, and the attachment is not stored in the user's distributed storage for storing

email attachments.

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

Filing Date: 07/25/2001

7/25

27. (Currently amended) The method of claim 23, wherein retrieving

the attachment further comprises attempting to retrieve the attachment from an

incoming email server of the user if the user's distributed storage for storing email

attachments is not accessible.

28. (Currently amended) An apparatus comprising:

a storage medium having stored therein a plurality of executable programming instructions that, when executed, perform the following steps for servicing email at a

client of a sender of an email:

receiving a request to send an email to a recipient in a peer-to-peer

communication system, the email containing a body and one or more

attachments;

determining whether the email to be sent includes one or more

attachments;

identifying an incoming email server corresponding to the recipient;

identifying determining whether the recipient of the email has a

distributed storage of the recipient separate from an the incoming email server

of the recipient for storing email attachments by querying a recipient email

distributed storage location server, if the email to be sent includes one or more

attachments:

determining a network address of the recipient's distributed storage for

storing email attachments, if the recipient has such distributed storage;

determining availability of whether the recipient's distributed storage is

available to receive the one or more attachments upon determining the network

address; and

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

transmitting the servicing said request to send said email based at least

in part on the results of said determinations determination; and

a processor coupled to the storage medium to execute the programming

instructions.

29. (Previously Presented) The apparatus of claim 28, wherein said

programming instructions are further configured to send the one or more attachments

of the email to the recipient's distributed storage, if the recipient has distributed

storage for storing email attachments, and the distributed storage is available to accept

said one or more attachments.

30. The apparatus of claim 28, wherein said (Previously Presented)

programming instructions are further configured to send an instruction to the

recipient's distributed storage to submit a request for the one or more attachments of

the email, if the recipient has distributed storage for storing email attachments, and the

distributed storage is available to accept said one or more attachments.

31. (Previously Presented) The apparatus of claim 30, wherein said

programming instructions are further configured to send the one or more attachments

of the email to the recipient's distributed storage for email attachments upon receipt of

a request from the recipient's distributed storage for the one or more attachments of

the email.

32. (Previously Presented) The apparatus of claim 28, wherein said

programming instructions are further configured to retry to send the one or more

attachments of the email to the recipient's distributed storage in accordance with a retry

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

policy, if the recipient has distributed storage and the distributed storage is not

immediately available to accept said one or more attachments.

33. (Previously Presented) The apparatus of claim 28, wherein said

programming instructions are further configured to send the one or more attachments

of the email to the incoming email server of the recipient if the recipient has distributed

storage and the distributed storage is not available to accept said one or more

attachments.

34. (Previously Presented) The apparatus of claim 28, wherein said

programming instructions are further configured to send the one or more attachments

of the email to the incoming email server of the recipient if the recipient does not have

distributed storage for email attachments.

35. (Previously presented) An apparatus comprising:

a storage medium having stored therein a plurality of executable programming

instructions that, when executed, perform the following steps for servicing email at a

client in a peer-to-peer communication system:

receiving at the client an email on behalf of a recipient, the email

including a main body and one or more attachments;

determining whether the recipient of the email has distributed storage for

storing email attachments by querying a recipient email distributed storage

location server;

determining a network address of the recipient's distributed storage for

storing email attachments, if the recipient has such distributed storage;

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

periodically determining whether the recipient's distributed storage is

available to receive the one or more attachments upon determining the network

address; and

sending the one or more attachments of the email to the recipient's

distributed storage for email attachments for storage, upon determining that the

recipient's distributed storage for email attachments is available to accept email

attachments; and

a processor coupled to the storage medium to execute the programming

instructions.

36. (Previously Presented) The apparatus of claim 35, wherein said

programming instructions are further configured to send an instruction to the

recipient's distributed storage for email attachments, instructing the recipient's

distributed storage for email attachments to submit a request for the one or more

attachments of the email.

37. (Previously presented) The apparatus of claim 36, wherein said

programming instructions are further configured to [[to]] enable the apparatus to send

the one or more attachments of the email to the recipient's distributed storage for email

attachments upon receipt of a request from the recipient's distributed storage for the

one or more attachments of the email.

38. (Currently amended)

An apparatus comprising:

a storage medium having stored therein a plurality of executable programming

instructions that, when executed, perform the following steps for providing an email

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

distributed storage location server capability at a client in a peer-to-peer

communication system:

receiving a registration—first request at a distributed storage location

<u>server</u>

registering to register an email user's a distributed storage of an email

user responsive to the first request, the distributed storage for storing email

attachments of the email user, the registering including; storing an identifier of

the email user and a corresponding network address of the email user's

distributed storage for email attachments of the email user;

receiving a second request from a requestor for the network address of

the email user's distributed storage of the for email attachmentsuser; and

providing the requestor with the network address of the email user's

distributed storage for email attachments; and

a processor coupled to the storage medium to execute the programming

instructions.

39-40. (Canceled)

41. (Currently amended) An apparatus comprising:

a storage medium having stored therein a plurality of executable programming

instructions that, when executed, perform the following steps for servicing email at a

client of a recipient of an email in a peer-to-peer communication system:

receiving a request from a user to access an attachment of an email;

determining whether a distributed storage for storing email attachments

for the user is accessible;

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

Filing Date: 07/25/2001

12/25

determining whether the attachment is stored in said distributed storage

if said distributed storage is accessible; and

servicing said request to access accessing said attachment of said email

at said distributed storage if the distributed storage is accessible and contains

the attachment, otherwise accessing the attachment or at an incoming email

server; and

a processor coupled to the storage medium to execute the programming

instructions.

42. (Previously presented) The apparatus of claim 41, wherein the

programming instructions are further configured to ping the user's distributed storage

for email attachments to determine whether the user's distributed storage for email

attachments is accessible.

43. (Previously presented) The apparatus of claim 41, wherein the

programming instructions are further configured to perform the servicing of said

request by retrieving the attachment from the user's distributed storage for storing

email attachments if the user's distributed storage for storing email attachments is

accessible, and the attachment is stored in the user's distributed storage for storing

email attachments.

44. (Previously presented) The apparatus of claim 41, wherein the

programming instructions are further configured to perform the servicing of said

request by retrieving the attachment from an incoming email server of the user if the

user's distributed storage for storing email attachments is accessible, and the

attachment is not stored in the user's distributed storage for storing email attachments.

Type of Response: Amendment

Application Number: 09/915,096

Attorney Docket Number: 302375.02

45. (Previously presented) The apparatus of claim 41, wherein the programming instructions are further configured to perform the servicing of said request by attempting to retrieve the attachment from an incoming email server of the user if the user's distributed storage for storing email attachments is not accessible.

Type of Response: Amendment Application Number: 09/915,096 Attorney Docket Number: 302375.02